

Review of: "Calculating dissolved marine oxygen values based on an enhanced Benthic Foraminifera Oxygen Index"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

Dear Editor

The paper: Calculating dissolved marine oxygen values based on an enhanced Benthic Foraminifera Oxygen Index by M. Kranner et al., it is an interesting study focused on the evaluation of an important parameter in the marine habitat, that is dissolved oxygen, by means of the use of the benthic foraminifers. This new index will be a useful proxy to evaluate, at a high-resolution scale, the dissolved oxygen in modern and past marine environments. The Authors basing on Benthic Foraminiferal Oxygen Index of Kahio, remodulated the Kahio' index introducing agglutinated and suboxic taxa, and providing a transfer function to directly convert the new index values (EBFOI) to dissolved oxygen values (ml/l).

The paper is well structured, the data are well presented, and the discussion and conclusions are well supported by data although I don't go into the precision of mathematical equations. The line of reasoning seems well supported. The most significant critical point is the discussion that seems more a conclusion rather than a real discussion. I suggest to re-name this section "conclusions" and the results section change in "Results and discussion" (depending on the format of the journal). The English language is not fluent mainly as regard the discussion section.

I think that the paper is suitable for publications on Scientific Reports after minor revisions consisting in a reformulation of the sections

For detailed comments see the pdf files (Supplementary data)

Supplementary materials

The tables reported as supplementary materials have not the captions. It is difficult for the reader to find the exact supplementary tables reported in the text. Moreover, in the text the supplementary tables are not named in a correct order.

